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<211> 2529

<212> DNA

<213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

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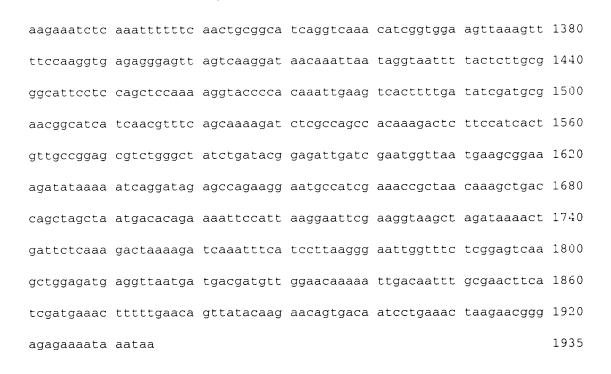
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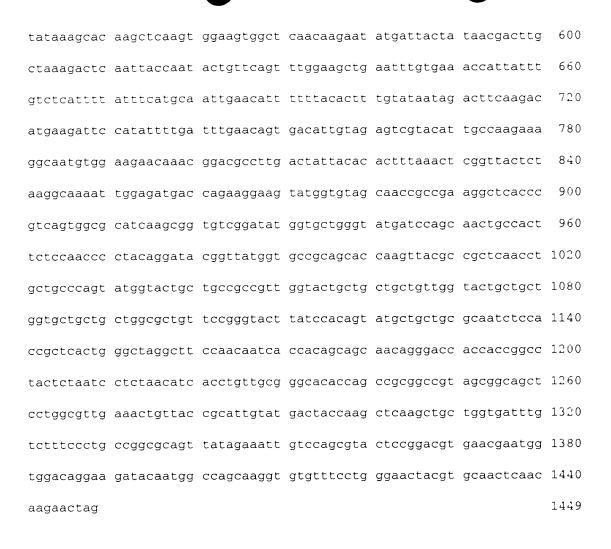
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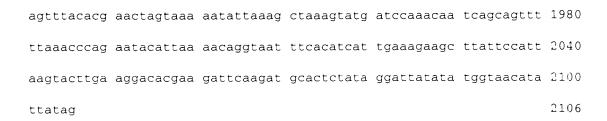
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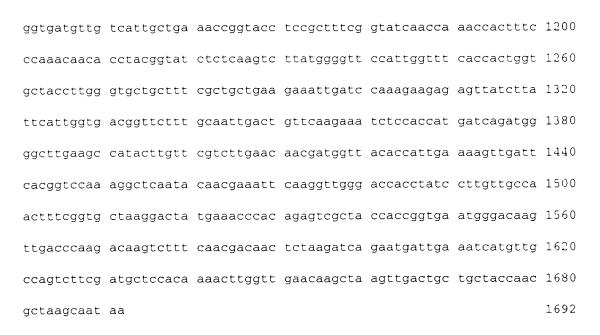
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478

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<sup>&</sup>lt;213> Saccharomyces cerevisiae

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<212> DNA

<213> Saccharomyces cerevisiae

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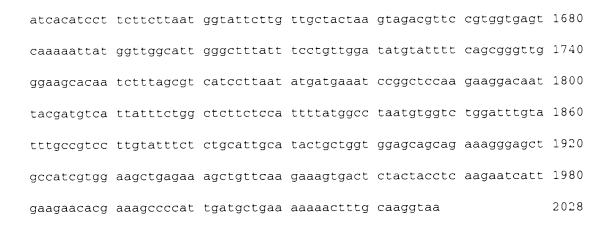
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<212> DNA

<213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

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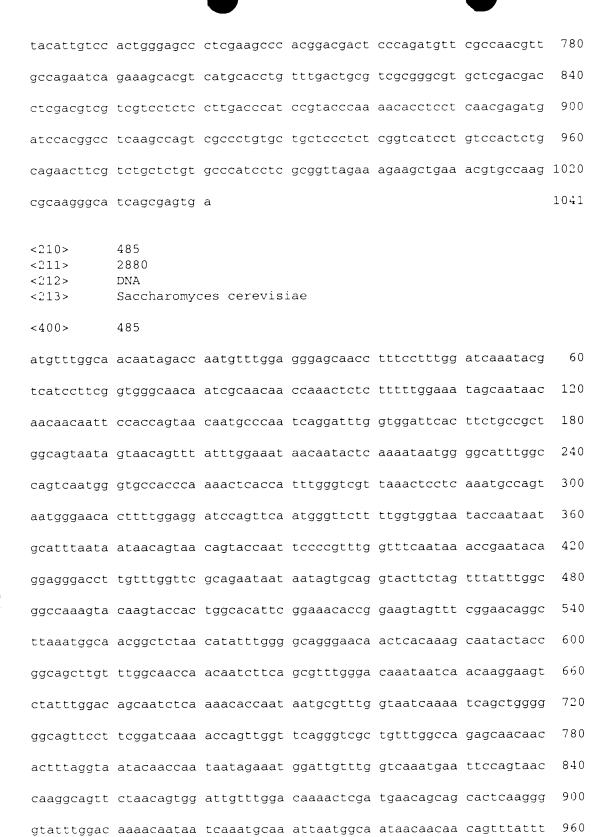
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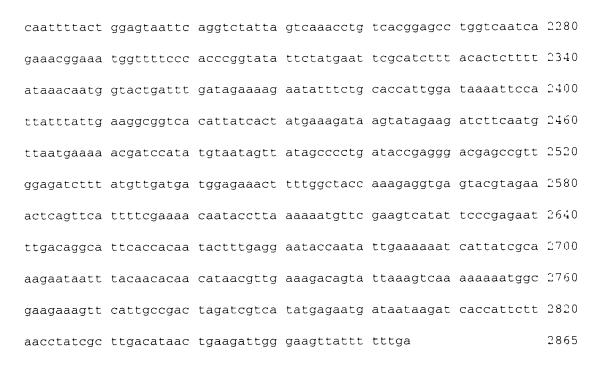
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<213> Saccharomyces cerevisiae

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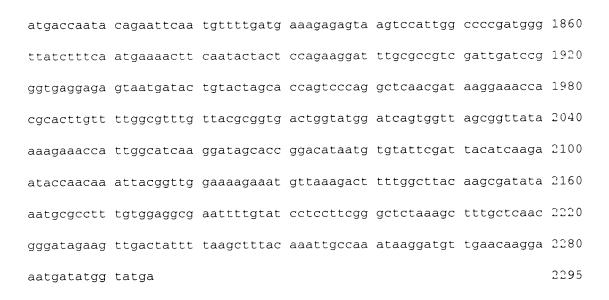
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<213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

<400> 497

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<211> 390

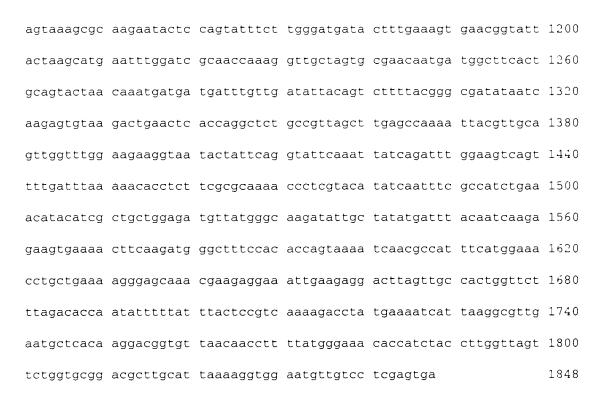
<212> DNA

<213> Saccharomyces cerevisiae

<400> 498

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<213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

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<sup>&</sup>lt;211> 1809

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Saccharomyces cerevisiae

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<sup>&</sup>lt;211> 3033

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<213> Saccharomyces cerevisiae

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<sup>&</sup>lt;213> Saccharomyces cerevisiae

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<sup>&</sup>lt;213> Saccharomyces cerevisiae

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<sup>&</sup>lt;213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

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<212> DNA

<213> Saccharomyces cerevisiae

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<212> DNA

<213> Saccharomyces cerevisiae

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<212> DNA

<213> Saccharomyces cerevisiae

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<sup>&</sup>lt;211> 486

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Saccharomyces cerevisiae

<sup>&</sup>lt;400> 561

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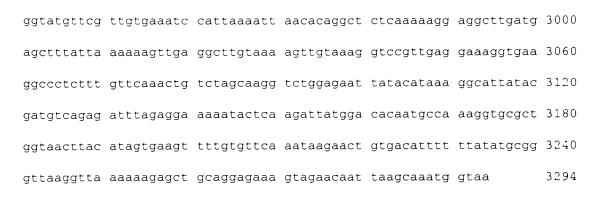
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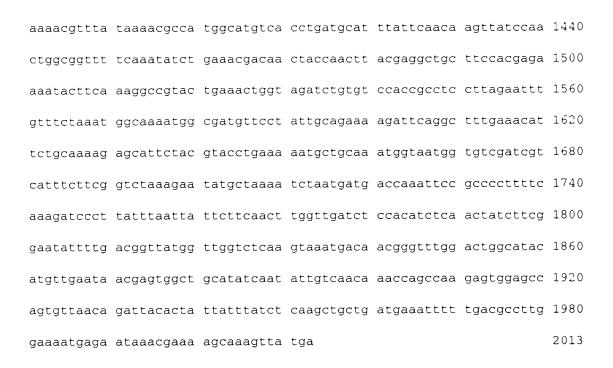
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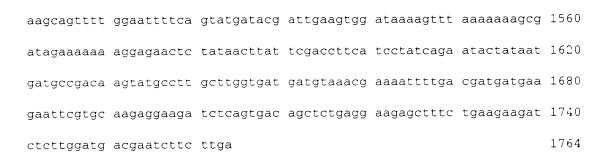
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aactacgcca	ctttagttct	catcgcaagt	gctttggtcg	ttattggctc	atttacgtct	300
atttcttcta	ttccatttac	agctctacct	cctacgagag	aacactcatt	gtttgatcct	360
acagattttg	atgtggacca	cgactgtcat	gttatctacc	gcgagaatga	cgaagataaa	420
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621

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<213> Glycine max

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Leu Asp Met Ala Asp Lys Thr Glu Asp Pro Tyr Met Arg Leu Val Tyr
20 25 30

Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr Ala Tyr Gln Arg Thr Trp 35 40 45

Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr Tyr Glu Met Val Asn His 50 55 60

Gly Gly Ile Thr Phe Ile Ser Glu Gln Val Ser His His Pro Pro Met 70 75 80

Ser Ala Gly His Ala Glu Thr Glu His Pne Thr Tyr Asp Val Thr Ser

	85	90	95
Lys Leu Lys Thr	Lys Phe Leu Gly	Asn Ser Val Asp V	al Tyr Pro Val
100		105	110
Gly Arg Thr Arg 115	Val Thr Leu Lys	Arg Asp Gly Val V	al Leu Asp Leu 25
Val Pro Pro Pro 130	Thr Lys Val Ser	Asn Leu Ile Phe G 140	ly Arg Thr Trp
Ile Asp Ser Pro	Gly Glu Met Ile	e Leu Thr Asn Leu T	hr Thr Gly Asp
145	150	155	160
Lys Val Val Leu	Tyr Phe Gln Pro	Cys Gly Trp Phe G	ly Tyr Glu Val
	165	170	175
Asp Gly Tyr Val	Tyr Asn Ser Ala	Asp Glu Pro Lys I	le Leu Met Thr
180		185	190
Gly Lys Trp Asn	Glu Ala Met Asm	Tyr Gln Val Cys A	sp Ser Glu Gly
195	200		05
Glu Pro Leu Pro	Gly Thr Glu Leu	Lys Glu Ile Trp A	rg Val Ala Asp
210	215	220	
Thr Pro Lys Lys	Asp Lys Phe Gln	Tyr Thr His Phe A	la His Lys Ile
225	230	235	240
Asn Ser Phe Asp	Thr Ala Pro Lys	Lys Leu Leu Ala S	er Asp Ser Arg
	245	250	255
Leu Arg Pro Asp	Arg Met Ala Leu	Glu Lys Gly Asp L	eu Ser Thr Ser
260		265	270
Gly Tyr Glu Lys	Ser Ser Leu Glu	Glu Arg Gln Arg A	la Glu Lys Arg
275	280		85
Asn Arg Glu Ala 290	Lys Gly His Lys 295	Phe Thr Pro Arg T	rp Phe Asp Leu
Thr Asp Glu Val	Thr Pro Thr Pro	Trp Gly Asp Leu G 315	lu Val Tyr Gln 320
Tyr Asn Gly Lys	Tyr Thr Gln His	Cys Ala Ala Val A 330	sp Ser Ser Glu 335
Cys Ile Glu Val	Pro Asp Ile Arg	Pro Glu Phe Asn P	ro Trp Gln Tyr
340		345	350
Asp Asn Leu Asp 355	Ala Glu		

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Ala Trp Cys	Ile Ser 20	Thr Thr		Pro 25	Val	Thr	Phe	Gly	Val 30	Ala	Pro
Tyr Asn Pro 35	Ile Leu	Gly Glu	Thr 40	His	His	Val	Ser	Arg 45	Gly	Asn	Leu
Asn Val Leu 50	Leu Glu	Gln Ile 55	Ser	His	His	Pro	Pro 60	Val	Thr	Ala	Leu
His Ala Thr 65		Lys Glu 70	Asn	Ile	Glu	Met 75	Leu	Trp	Cys	Gln	Arg 80
Pro Asp Pro	Lys Phe 85	Asn Gly	Thr	Ser	Val 90	Glu	Ala	Lys	Val	His 95	Gly
Ile Arg Gln	Leu Lys 100	Leu Leu	Asn	His 105	Gly	Glu	Thr	Tyr	Glu 110	Met	Asn
Cys Pro Arg 115	Leu Leu	Leu Arg	Ile 120	Leu	Pro	Val	Pro	Gly 125	Ala	Asp	Trp
Ala Gly Thr 130	Val Asn	Ile Arg 135	Cys	Leu	Glu	Thr	Gly 140	Leu	Val	Ala	Glu
Leu Ser Tyr 145		Ser Ser 150	Phe	Leu	Gly	Ile 155	Gly	Gly	Asn	His	Arg 160
Val Ile Lys	Gly Lys 165	Ile Leu	Asp	Ser	Ser 170	Ser	Leu	Lys	Val	Leu 175	Tyr
Glu Val Asp	Gly His 180	Trp Asp	Arg	Thr 185	Val	Lys	Val	Lys	Asp 190	Thr	Asn
Asn Gly Lys 195		Val Ile	Tyr 200	Asp	Ala	Lys	Glu	Val 205	Met	Ser	Gly
Leu Glu Thr 210	Pro Ile	Leu Lys 215	Asp	Ile	Glu	Gly	Val 220	Trp	Gln	Thr	Glu
Ser Ala His 225	Val Trp	Gly Glu 230	Leu	Asn	Gln	Ala 235	Ile	Val	Ser	Lys	Asp 240
Trp Glu Lys	Ala Arg 245	Glu Ala	Lys	Leu	Lys 250	Val	Glu	Glu	Arg	Gln 255	Arg

Glu Leu Val Arg Glu Arg Glu Ser Lys Gly Glu Thr Trp Ile Ser Lys 260 265 270

His Phe Val Val Ser Asn Asn Lys Glu Gly Trp Gln Cys Ser Pro Ile 275 280 285

His Lys Ser Val Pro Ala Ala Pro Ile Thr Ala Leu 290 295 300

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Thr Glu Asp Pro Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile 20 25 30

Ser Val Tyr Tyr Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile 35 40 45

Leu Gly Glu Thr Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile 50 55 60

Ser Glu Gln Val Ser His His Pro Pro Met Ser Ala Gly His Ala Glu 65 70 75 80

Thr Glu His Phe Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe 85 90 95

Leu Gly Asn Ser Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr 100 105 110

Leu Lys Arg Asp Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys 115 120 125

Val Ser Asn Leu Ile Phe Gly Arg Thr Trp Ile Asp Ser Pro Gly Glu 130 135 140

Met Ile Leu Thr Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe 145 150 155 160

Gln Pro Cys Gly Trp Phe Gly Ala Gly Arg Tyr Glu Val Asp Gly Tyr 165 170 175

Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr Gly Lys Trp 180 185 190

Asn Glu	Ala Met 195	Asn Ty:		Val 200	Cys	Asp	Ser	Glu	Gly 205	Glu	Pro	Leu
Pro Gly 210	Thr Glu	ı Leu Ly:	Glu 215	Ile	Trp	Arg	Val	Ala 220	Asp	Thr	Pro	Lys

Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile Asn Ser Phe

235

230

Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg Leu Arg Pro 245 250 255

Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser Gly Tyr Glu 260 265 270

Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg Asn Arg Glu 275 280 285

Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu Thr Asp Glu 290 295 300

Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln Tyr Asn Gly 305 310 315 320

Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu Cys Ile Glu 325 330 335

Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr Asp Asn Leu 340 345 350

Asp Ala Glu 355

<210> 625 <211> 414

<212> PRT

<213> Zea mays

<400> 625

Met Ala Thr Lys Glu Glu Ala Ser Ala Val Pro Ala Ala Ser Lys Thr 1 5 10 15

Ser Trp Ser Ser Phe Leu Lys Ser Ile Ala Ser Phe Asn Gly Asp Leu 20 25 30

Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr 35 40 45

Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro 50 55 60

Ala Arg Glu Pro Asp Pro Ala Lys Arg Ala Leu Leu Val Leu Lys Trp

65	70		75	80
Phe Leu Ser T	Thr Leu His 85	Gln Gln Tyr	Cys Ser Arg S 90	Ser Glu Lys Leu 95
-	Lys Lys Pro 100	Leu Asn Pro 105	Phe Leu Gly G	Glu Leu Phe Leu 110
Gly Lys Trp I 115	Ile Glu Asp	Glu Asp Val 120		Arg Leu Ile Ser .25
Glu Gln Val S 130	Ser His His	Pro Pro Ala 135	Thr Ala Tyr S	Ser Ile Val Asn
Glu Lys His G 145	Gly Val Glu 150	Leu Gln Gly	Tyr Asn Ala G	Gln Lys Ala Ser 160
Phe Ser Ser T	Thr Ile Gln 165	Val Lys Gln	Leu Gly His A	Ala Tyr Leu Ser 175
	Pro Gly Lys 180	Asp Ala Asn 185	Asn Glu Asp A	Asp Arg Glu His 190
Tyr Leu Ile T 195	Thr Leu Pro	Asn Leu His 200		Leu Ile Tyr Gly 205
Thr Pro Phe V	Val Glu Leu	Glu Lys Ser 215	Cys Lys Ile A	Ala Ser Ser Thr
Gly Tyr Ile S 225	Ser Lys Ile 230	Asp Phe Ser	Gly Lys Gly 7 235	Orp Leu Ser Gly 240
Lys Lys Asn T	Thr Phe Ser 245	Ala Val Leu	Tyr Lys Glu S 250	Ser Asp Gly Glu 255
	Leu Tyr Thr 260	Ala Asp Gly 265	Gln Trp Ser S	Ser Ser Phe Thr 270
Ile Arg Asp A	Ala Arg Ala	Lys Lys Asp 280		Phe Thr Ile Ser 285
Asn Leu Lys 1 290	Thr Thr Pro	Leu Thr Val 295	Ala Pro Leu A 300	Asp Glu Gln Asp
Glu Trp Glu T 305	Thr Arg Arg 310	Ala Trp Arg	Asp Val Ala A	Ala Ala Ile Glu 320
Arg Gly Asp M	Met Glu Ala 325	Thr Ser Asn	Ala Lys Thr I	Lys Ile Glu Val 335
	Glu Leu Arg 340	Lys Lys Glu 345	Lys Glu Gln (	Gly Glu Glu Trp 350
Glu Arg Arg E	Phe Phe Lys	Arg Val Asn	Glu Lys Asp (	Glu Pro Thr Phe

355 360 365

Met Arg Leu Ala Ala Met Leu Asp Leu Thr Gln Gly Ile Glu Ser Asp 370 375 380

Arg Thr Gly Gly Val Trp Arg Phe Asp Pro Ser Arg Ala Val Asp Ala 385 390 395 400

Asn Pro Pro Tyr His Lys Val Gly Gly Glu Gly Leu Gly Leu 405 410

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<211> 434

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<213> Saccharomyces cerevisiae

<400> 626

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Ile Ser Ser Phe Asn Gly Asp Leu Ser Ser Leu Ser Ala Pro Pro Phe 20 25 30

Ile Leu Ser Pro Thr Ser Leu Thr Glu Phe Ser Gln Tyr Trp Ala Glu 35 40 45

His Pro Ala Leu Phe Leu Glu Pro Ser Leu Ile Asp Gly Glu Asn Tyr 50 60

Lys Asp His Cys Pro Phe Asp Pro Asn Val Glu Ser Lys Glu Val Ala 65 70 75 80

Gln Met Leu Ala Val Val Arg Trp Phe Ile Ser Thr Leu Arg Ser Gln \$85\$ 90 95

Tyr Cys Ser Arg Ser Glu Ser Met Gly Ser Glu Lys Lys Pro Leu Asn 100 105 110

Pro Phe Leu Gly Glu Val Phe Val Gly Lys Trp Lys Asn Asp Glu His
115 120 125

Pro Glu Phe Gly Glu Thr Val Leu Leu Ser Glu Gln Val Ser His His 130 135 140

Pro Pro Met Thr Ala Phe Ser Ile Phe Asn Glu Lys Asn Asp Val Ser 145 150 155 160

Val Gln Gly Tyr Asn Gln Ile Lys Thr Gly Phe Thr Lys Thr Leu Thr
165 170 175

Leu Thr Val Lys Pro Tyr Gly His Val Ile Leu Lys Ile Lys Asp Glu 180 185 190

Thr Tyr Leu Ile Thr Thr Pro Pro Leu His Ile Glu Gly Ile Leu Val Ala Ser Pro Phe Val Glu Leu Gly Gly Arg Ser Phe Ile Gln Ser Ser Asn Gly Met Leu Cys Val Ile Glu Phe Ser Gly Arg Gly Tyr Phe Thr Gly Lys Lys Asn Ser Phe Lys Ala Arg Ile Tyr Arg Ser Pro Gln Glu His Ser His Lys Glu Asn Ala Leu Tyr Leu Ile Ser Gly Gln Trp Ser Gly Val Ser Thr Ile Ile Lys Lys Asp Ser Gln Val Ser His Gln Phe Tyr Asp Ser Ser Glu Thr Pro Thr Glu His Leu Leu Val Lys Pro Ile Glu Glu Gln His Pro Leu Glu Ser Arg Arg Ala Trp Lys Asp Val Ala Glu Ala Ile Arg Gln Gly Asn Ile Ser Met Ile Lys Lys Thr Lys Glu Glu Leu Glu Asn Lys Gln Arg Ala Leu Arg Glu Gln Glu Arg Val Lys Gly Val Glu Trp Gln Arg Arg Trp Phe Lys Gln Val Asp Tyr Met Asn Glu Asn Thr Ser Asn Asp Val Glu Lys Ala Ser Glu Asp Asp Ala Phe Arg Lys Leu Ala Ser Lys Leu Gln Leu Ser Val Lys Asn Val Pro Ser Gly Thr Leu Ile Gly Gly Lys Asp Asp Lys Lys Asp Val Ser Thr Ala Leu His Trp Arg Phe Asp Lys Asn Leu Trp Met Arg Glu Asn Glu Ile 

Thr Ile